

Patent Application of Joseph L. DiCarlo for "Archers Flame Illuminated Arrow
Nock" continued

Page 11

CLAIMS

What is claimed is:

1. A method for illuminating an archery arrow nock, said lighted nock installed in a tubular arrow shaft, said apparatus comprising:
 - a - a light diffusing translucent or clear nock;
 - b - a power source;
 - c - an LED light source;
 - d - a single pole switch;
 - e - a dowel or dowels fitted in tubular arrow shaft as a means of limiting forward travel of said assembly;
 - f - an end cap is provided as means of protection for battery and components;
 - g - an anchor pin inserted through nock and collar assembly as a means of joining said components as a single unit;
 - h - a hole drilled in nock and collar to accept anchor pin.
- 2 - illuminated arrow nock of claim 1, wherein; the battery, led, switch, and collar are a combined unit.
- 3 - illuminated arrow nock of claim 2, wherein; a means is provided for the illumination of the LED by compressing said components along the axis of the tubular arrow shaft and therefore creating an on or "closed switch" position in switch to energize said LED light source;
 - a - a dowel or dowels are positioned forward of said illuminated nock in a fixed position within arrow shaft as a means of restricting forward travel.

Patent Application of Joseph L. DiCarlo for "Archers Flame Illuminated Arrow
Nock" continued

Page 12

4 - illuminated arrow nock of claim 1, whereas; an end cap made of medium dense plastic or other like material is counter bored to accept insertion of said battery and is provided as a means of preventing damage and to absorb shock of said components creating a cushion effect along with adding protection and structural support of the batteries fragile thin wall aluminum construction.

5 - illuminated arrow nock of claim 1, whereas; an anchor pin is provided as a means of joining said components to nock.

6 - illuminated arrow nock of claim 1, wherein; is provided as a means of weatherproofing said nock assembly by remaining in the "closed switch" position under all normal hunting conditions until manually turned off.

7 - illuminated arrow nock of claim 1, wherein; a translucent or clear nock is provided as means of diffusing light from the LED light source;
a - an illuminated nock that can be turned to the on or "closed switch" position from forward pressure created from the string when shot from a bow or crossbow.

8 - illuminated arrow nock of claim 1, wherein; will remain lit when removed from tubular arrow shaft.

9 - illuminated arrow nock of claim 1, whereas; a hole drilled in nock and collar is provided a means of accepting anchor pin.

10 - illuminated arrow nock of claim 1, whereas; an LED light source is provided to transmit light through said nock assembly.